

THE WORLD'S CELLUAR



BROADBAND LEADER

ALT3800 Chipset - Product Brief

Altair's ALT3800 is an LTE CAT-4, high speed broadband access chipset that supports 150 Mbps downlink and 50 Mbps uplink.

This chipset sets the benchmark for performance, power consumption and cost.

The ALT3800 includes a baseband processor based on Altair's advanced Software Defined Radio (SDR) architecture as well as an RF transceiver and a field proven software stack.

In addition, the ALT3800 offers a high performance CPU subsystem with native Linux and application user space, supplied with a high performance pre-integrated Wi-Fi routing stack and drivers.

The ALT3800 is offered with a set of turnkey hardware and software reference designs, accelerating product time to market and minimizing development and carrier acceptance investment.

The ALT3800 is built for easy customization for different markets and is used in a wide variety of devices, including tablets, netbooks, connected consumer devices, dongles, indoor and outdoor CPEs, mobile hotspots, and M2M modules.

The ALT3800 leverages highly mature, carrier-certified and mass market deployed software as well as a comprehensive manufacturing and test solution ecosystem.

Highlight Features

- Baseband processor and RF optimized radio transceiver ICs
- CAT-4 150 Mbps DL, 50 Mbps UL
- 3GPP Release 10 compliant
- FDD and TDD support with real time handover
- Evolved Multicast Broadcast Service (eMBMS)
- Integrated VoLTE with HD voice support
- Integrated IMS and OTA-DM
- OS drivers – Android, Linux, Win 7/8.1, MAC OSX, Chromebook
- Altair's INCA™ interference cancellation technology
- Two RFIC options supporting multiple FDD/TDD band combinations: Six RF ports between 400 – 3800 MHz (ALT6300), or three RF ports between 400 – 2700 MHz (ALT6401)
- SAW-less TX operation
- Integrated LNAs
- Interfaces: USB2.0 HS/OTG, HSIC, SDIO 3.0 host/device, I2S/PCM, RMII, USIM, UART

Ordering Information

Part Number	Description
ALT3800-B0	ALT3800 10x10mm BGA, 0.5mm pitch
ALT6300-C0	ALT6300 8x8mm BGA, 0.5mm pitch
ALT6401-C1	ALT6401 6x6mm BGA, 0.4mm pitch

